



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,916	01/17/2006	Oscar Hendrikus Willemse	NL030880	5329
24737	7590	06/21/2007		
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			EXAMINER	
P.O. BOX 3001			PYO, KEVIN K	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2878	
			MAIL DATE	DELIVERY MODE
			06/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/564,916	WILLEMSSEN ET AL.
	Examiner Kevin Pyo	Art Unit 2878

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-19 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
 5) Claim(s) ____ is/are allowed.
 6) Claim(s) 1,2,4-7 and 12-17 is/are rejected.
 7) Claim(s) 3,8-11,18 and 19 is/are objected to.
 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 17 January 2006 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____. | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| | 6) <input type="checkbox"/> Other: ____. |

Claim Rejections - 35 USC § 112

1. Claims 12-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 12, the phrase “said first glass plate” lacks a proper antecedent basis.

Regarding claim 13, the phrases “said first glass plate” and “said first electrode” lack a proper antecedent basis.

Regarding claim 14, the phrases “said second glass plate” and “said second electrode” lack a proper antecedent basis.

Regarding claim 15, the phrase “said scattering foil” lacks a proper antecedent basis.

Regarding claim 16, the phrase “said first glass plate” lacks a proper antecedent basis.

Regarding claim 17, the phrase “said first glass plate” lacks a proper antecedent basis.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Amm (6,707,591).

Regarding claim 1, Amm shows in Figs.5 and 6 the following elements of applicant's claim: a) at least one laser or LED light source (46) for producing at least one light beam; b) beam shaping optics (48) arranged to expand said at least one light beam in one direction; c) at least one one-dimensional array of beam switches (50) arranged to receive said expanded at least one light beam and modulate it to form a line image; d) a projection lens (86) for projecting said line image; and e) a slow mirror scanner (88) arranged to scan consecutive said line images to form a two-dimensional image.

Regarding claim 4, the limitations therein are disclosed in col.6, lines 37-46.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Amm.

Regarding claims 5-7, Amm discloses the use of a dichroic filter group for combining the reflected light beam from three one-dimensional arrays of beam switches. The specific type utilized would have been obvious to one of ordinary skill in the art in view of meeting different design requirements.

6. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Amm in view of Gibbon et al (US 2003/0142274 A1).

Regarding claim 2, although Amm does not specifically mention a technique of using multiple sequential beam switches, such a technique is well known in the art as disclosed by Gibbon et al (paragraph 1) and it would have been obvious to one of ordinary skill in the art to utilize two beams switches, instead of one, in view of improving contrast ratio through multiplicative effect (paragraph 37 of Gibbon et al).

Allowable Subject Matter

7. Claims 3, 8-11, 18 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
8. Claims 12-17 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
9. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 3, the prior art fails to disclose or make obvious an optical imaging system comprising, in addition to the other recited features of the claim, the specific arrangement of a one-dimensional array of beam switches and a reflection mirror in the manner recited in claim 3.

Regarding claim 8-17, the prior art fails to disclose or make obvious an optical imaging system comprising, in addition to the other recited features of the claim, the details and function of at least one one-dimensional array of beam switches as claimed in claim 8.

Regarding claims 18 and 19, the prior art fails to disclose or make obvious an optical imaging system comprising, in addition to the other recited features of the claim, the specific arrangement of a diaphragm or a polarizer in the manner recited in claim 18 or claim 19.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Pyo whose telephone number is (571) 272-2445. The examiner can normally be reached on Mon-Fri (with flexible hour), First Mon. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Kevin Pyo
Primary Examiner
Art Unit 2878

Kp
6/13/2007